

**PROCEEDINGS OF THE  
BIOMASS COLLOQUIUM IN 1982**

MEMOIRS OF NATIONAL INSTITUTE OF POLAR RESEARCH  
SPECIAL ISSUE No. 27

---

PROCEEDINGS OF THE  
BIOMASS COLLOQUIUM IN 1982

*Edited by*  
*Takahisa NEMOTO and Tatsuro MATSUDA*

PUBLISHED BY NATIONAL INSTITUTE OF POLAR RESEARCH

---

TOKYO

JULY 1983

Memoirs of National Institute of Polar Research  
Special Issue, No. 27

PROCEEDINGS OF THE  
BIOMASS COLLOQUIUM IN 1982

Takahisa NEMOTO and Tatsuro MATSUDA, *Editors*

Copyright 1983 by National Institute of Polar Research  
9-10, Kaga 1-chome, Itabashi-ku, Tokyo 173

Printed by Tokyo Press Co., Ltd.